

Linear Systems (C)

Solve each system of equations.

1. $4c + 3u + 6x = 66$
 $5c + 4u + 4x = 70$
 $5c + 4u + 6x = 78$

5. $2a + 6v + 3z = 50$
 $3a + 3v + 5z = 41$
 $4a + 4v + z = 32$

2. $6a + 6x + y = 48$
 $4a + 2x + 4y = 42$
 $a + 5x + 3y = 45$

6. $4a + 3u + 3v = 30$
 $4a + 6u + 3v = 42$
 $4a + 3u + 2v = 28$

3. $u + 6v + 5z = 43$
 $3u + 3v + 2z = 34$
 $5u + 2v + 4z = 54$

7. $6a + c + 5y = 52$
 $5a + 6c + y = 43$
 $5a + 5c + 5y = 60$

4. $5v + 4y + 2z = 48$
 $5v + 5y + 5z = 65$
 $v + 4y + 3z = 29$

8. $2c + 5x + 4y = 38$
 $2c + 4x + 3y = 32$
 $6c + 3x + 3y = 54$

Linear Systems (C) Answers

Solve each system of equations.

1. $4c + 3u + 6x = 66$
 $5c + 4u + 4x = 70$
 $5c + 4u + 6x = 78$
 $c = 6, u = 6, x = 4$

5. $2a + 6v + 3z = 50$
 $3a + 3v + 5z = 41$
 $4a + 4v + z = 32$
 $a = 1, v = 6, z = 4$

2. $6a + 6x + y = 48$
 $4a + 2x + 4y = 42$
 $a + 5x + 3y = 45$
 $a = 2, x = 5, y = 6$

6. $4a + 3u + 3v = 30$
 $4a + 6u + 3v = 42$
 $4a + 3u + 2v = 28$
 $a = 3, u = 4, v = 2$

3. $u + 6v + 5z = 43$
 $3u + 3v + 2z = 34$
 $5u + 2v + 4z = 54$
 $u = 6, v = 2, z = 5$

7. $6a + c + 5y = 52$
 $5a + 6c + y = 43$
 $5a + 5c + 5y = 60$
 $a = 4, c = 3, y = 5$

4. $5v + 4y + 2z = 48$
 $5v + 5y + 5z = 65$
 $v + 4y + 3z = 29$
 $v = 6, y = 2, z = 5$

8. $2c + 5x + 4y = 38$
 $2c + 4x + 3y = 32$
 $6c + 3x + 3y = 54$
 $c = 6, x = 2, y = 4$